

Paul,

I reviewed the bonding costs in the submittal.

The problem with Bacon Davis is that the cost can be all over. See differences between Carbon and Emery County and natural gas verse non-natural gas. Means labor costs are also different. Note: the overhead for labor can be substantial as much as 50%.

The equipment costs are low compared to Blue Book and Means.

	Hourly		Operator's	Total
Equipment	Operating	Equipment	Hourly	Hourly
Cost	Costs	Overhead	Wage Rate	Cost
(176 hr)				

Standard Crawler Dozer
Caterpillar

D6R 2003 (9-43) (3Q02)			0.1	62.15	62.15
D6R XL Series II (9-48) (2nd2009)	8200	41.45	0.1	62.15	159
D6N DS XL (9-51) (2nd 2007)			0.1	62.15	62.15
D6R XL Series III (9-51) (2nd 2007)			0.1	62.15	62.15
D7R Series II (9-51) (2nd2007)			0.1	62.15	62.15
D7N DS Series II (9-49) (2nd 2009)	11510	50.75	0.1	62.15	189.91
D7N DS XR Series II (9-49) (2nd 2009)	13145	54.35	0.1	62.15	204.09
D8R Series II (9-52)(2nd2007)			0.1	62.15	62.15
D8T (9-49)(2nd2009)	18450	71.8	0.1	62.15	256.44
D9R Semi-U EROPS (9-49) (2H2009)	19175	90.6	0.1	62.15	281.65
D9T (9-49) (2nd 2009)	23700	97.2	0.1	62.15	317.2
D10R Semi EROPS (9-49) (2nd2009)	25005	120.1	0.1	62.15	350.54
D11R U EROPS (9-49) (2nd 2009)	46760	191.35	0.1	62.15	564.89

Installing Contractor's Overhead & Profit

Below are the average installing contractor's percentage mark-ups applied to base labor rates to arrive at typical billing rates.

Column A: Labor rates are based on union wages averaged for 30 major U.S. cities. Base rates including fringe benefits are listed hourly and daily. These figures are the sum of the wage rate and employer-paid fringe benefits such as vacation pay, employer-paid health and welfare costs, pension costs, plus appropriate training and industry advancement funds costs.

Column B: Workers' Compensation rates are the national average of state rates established for each trade.

Column C: Column C lists average fixed overhead figures for all trades. Included are Federal and State Unemployment costs set at 6.2%; Social Security Taxes (FICA) set at 7.65%; Builder's Risk Insurance costs set at 0.44%; and Public Liability costs set at 2.02%. All the percentages except those for Social Security Taxes vary from state to state as well as from company to company.

Columns D and E: Percentages in Columns D and E are based on the presumption that the installing contractor has annual billing of \$4,000,000 and up. Overhead percentages may increase with smaller annual billing. The overhead percentages for any given contractor may vary greatly and depend on a number of factors, such as the contractor's annual volume, engineering and logistical support costs, and staff requirements. The figures for overhead and profit will also vary depending on the type of job, the job location, and the prevailing economic conditions. All factors should be examined very carefully for each job.

Column F: Column F lists the total of Columns B, C, D, and E.

Column G: Column G is Column A (hourly base labor rate) multiplied by the percentage in Column F (O&P percentage).

Column H: Column H is the total of Column A (hourly base labor rate) plus Column G (Total O&P).

Column I: Column I is Column H multiplied by eight hours.

		A		B	C	D	E	F	G	H	I
Abbr.	Trade	Base Rate Incl. Fringes		Workers' Comp. Ins.	Average Fixed Over-head	Over-head	Profit	Total Overhead & Profit		Rate with O & P	
		Hourly	Daily					%	Amount	Hourly	Daily
Skwk	Skilled Workers Average (35 trades)	\$40.85	\$326.80	15.5%	16.3%	13.0%	10%	54.8%	\$22.40	\$63.25	\$506.00
	Helpers Average (5 trades)	30.30	242.40	17.2		11.0		54.5	16.50	46.80	374.40
	Foreman Average, Inside (\$.50 over trade)	41.35	330.80	15.5		13.0		54.8	22.65	64.00	512.00
	Foreman Average, Outside (\$2.00 over trade)	42.85	342.80	15.5		13.0		54.8	23.50	66.35	530.80
Clab	Common Building Laborers	31.60	252.80	17.8		11.0		55.1	17.40	49.00	392.00
Asbe	Asbestos/Insulation Workers/Pipe Coverers	44.10	352.80	14.4		16.0		56.7	25.00	69.10	552.80
Boil	Boilermakers	50.20	401.60	11.4		16.0		53.7	26.95	77.15	617.20
Bric	Bricklayers	40.50	324.00	14.4		11.0		51.7	20.95	61.45	491.60
Brhe	Bricklayer Helpers	32.15	257.20	14.4		11.0		51.7	16.60	48.75	390.00
Carp	Carpenters	39.95	319.60	17.8		11.0		55.1	22.00	61.95	495.60
Cefi	Cement Finishers	38.30	306.40	9.1		11.0		46.4	17.75	56.05	448.40
Elec	Electricians	47.00	376.00	6.5		16.0		48.8	22.95	69.95	559.60
Elev	Elevator Constructors	56.60	452.80	6.6		16.0		48.9	27.70	84.30	674.40
Eqhw	Equipment Operators, Crane or Shovel	42.55	340.40	10.0		14.0		50.3	21.40	63.95	511.60
Eqmd	Equipment Operators, Medium Equipment	41.35	330.80	10.0		14.0		50.3	20.80	62.15	497.20
Eqit	Equipment Operators, Light Equipment	39.05	312.40	10.0		14.0		50.3	19.65	58.70	469.60
Eqol	Equipment Operators, Oilers	36.80	294.40	10.0		14.0		50.3	18.50	55.30	442.40
Eqmm	Equipment Operators, Master Mechanics	42.70	341.60	10.0		14.0		50.3	21.50	64.20	513.60
Glaz	Glaziers	38.60	308.80	13.9		11.0		51.2	19.75	58.35	466.80
Lath	Lathers	35.55	284.40	10.6		11.0		47.9	17.05	52.60	420.80
Marb	Marble Setters	38.65	309.20	14.4		11.0		51.7	20.00	58.65	469.20
Mill	Millwrights	41.60	332.80	9.5		11.0		46.8	19.45	61.05	488.40
Mstz	Mosaic & Terrazzo Workers	37.70	301.60	9.1		11.0		46.4	17.50	55.20	441.60
Pord	Painters, Ordinary	35.20	281.60	12.5		11.0		49.8	17.55	52.75	422.00
Psst	Painters, Structural Steel	36.00	288.00	44.2		11.0		81.5	29.35	65.35	522.80
Pape	Paper Hangers	35.45	283.60	12.5		11.0		49.8	17.65	53.10	424.80
Pile	Pile Drivers	38.50	308.00	20.1		16.0		62.4	24.00	62.50	500.00
Plas	Plasterers	36.15	289.20	13.6		11.0		50.9	18.40	54.55	436.40
Plah	Plasterer Helpers	32.30	258.40	13.6		11.0		50.9	16.45	48.75	390.00
Plum	Plumbers	48.75	390.00	7.8		16.0		50.1	24.40	73.15	585.20
Rodm	Rodmen (Reinforcing)	44.55	356.40	23.2		14.0		63.5	28.30	72.85	582.80
Rofc	Roofers, Composition	34.25	274.00	31.2		11.0		68.5	23.45	57.70	461.60
Rots	Roofers, Tile & Slate	34.10	272.80	31.2		11.0		68.5	23.35	57.45	459.60
Rohe	Roofers, Helpers (Composition)	25.35	202.80	31.2		11.0		68.5	17.35	42.70	341.60
Shee	Sheet Metal Workers	47.20	377.60	11.6		16.0		53.9	25.45	72.65	581.20
Spri	Sprinkler Installers	48.15	385.20	7.8		16.0		50.1	24.10	72.25	578.00
Stpi	Steamfitters or Pipefitters	49.35	394.80	7.8		16.0		50.1	24.70	74.05	592.40
Ston	Stone Masons	40.80	326.40	14.4		11.0		51.7	21.10	61.90	495.20
Sswk	Structural Steel Workers	44.70	357.60	37.9		14.0		78.2	34.95	79.65	637.20
Tilf	Tile Layers	38.10	304.80	9.1		11.0		46.4	17.70	55.80	446.40
Tilh	Tile Layers Helpers	30.05	240.40	9.1		11.0		46.4	13.95	44.00	352.00
Trit	Truck Drivers, Light	30.95	247.60	16.6		11.0		53.9	16.70	47.65	381.20
Trhw	Truck Drivers, Heavy	31.95	255.60	16.6		11.0		53.9	17.20	49.15	393.20
Sswl	Welders, Structural Steel	44.70	357.60	37.9		14.0		78.2	34.95	79.65	637.20
Wrck	*Wrecking	31.60	252.80	34.1		11.0		71.4	22.55	54.15	433.20

*Not included in averages

Heavy Construction Cost Data